

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Walter Callen et al.

Art Unit : 1652

Serial No. : 09/656,309

Examiner : Richard Hutson, Ph.D.

Filed : September 6, 2000

Title : ENZYMES HAVING HIGH TEMPERATURE POLYMERASE ACTIVITY AND
METHODS OF USE THEREOF

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

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INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed for filing in the above-referenced patent application is a Form PTO-1449, being submitted prior to the first Office Action on the merits. Applicants respectfully request consideration of the remarks and references set forth herein.

The following documents are enclosed herewith:

- copy of Form PTO-1449
- Postcard
- copies of cited references

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

AUGUST 5, 2003

Date of Deposit

Susan Sennott

Signature

SUSAN SENNOTT

Typed or Printed Name of Person Signing Certificate

REMARKS

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

This submission is a supplemental Information Disclosure Statement (IDS). The previous IDS and PTO FORM 1449 were submitted on December 13, 2000, September 17, 2002, January 31, 2003 and March 19, 2003.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 06-1050. If necessary, please deduct any necessary additional fees from, or credit any overpayment to, the above-noted Deposit Account.

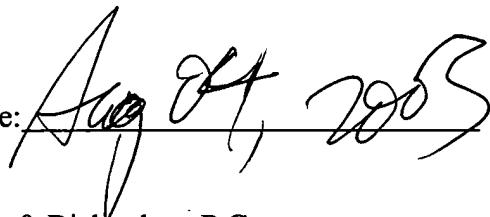
Applicant : Walter Callen et al.
Serial No. : 09/656,309
Filed : September 6, 2000
Page : 3 of 3

Attorney's Docket No.: 09010-027003 / DIVER1350-2

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 858 678 5070.

Respectfully submitted,

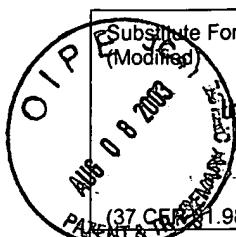
Date:



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Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
09010-027003Application No.
09/656,309
**Information Disclosure Statement
by Applicant**
(Use several sheets if necessary)
Applicant
Walter Callen et al.Filing Date
September 6, 2000Group Art Unit
1652

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TECH CENTER 1600/2900**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date
	AA	6,492,511	Dec 10, 2002	Callen et al.			
	AB						
	AC						
	AD						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	
	AE							
	AF							
	AG							
	AH							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AI	Uemori, et al., "The hyperthermophilic archaeon Pyrodictium occultum has two alpha-like DNA polymerases", <u>J. Bacteriology</u> , Vol. 177, No. 8, pp. 2164-2177, 1995
	AJ	Campbell, et al., "General properties and applications of monoclonal antibodies", Elsevier Science Publishers, section 1.1. pp. 1-32, 1984
	AK	Bost, et al., "Antibodies Against a Peptide Sequence Within the HIV Envelope Protein Crossreacts with Human Interleukin-2", <u>Immunological Investigations</u> , Vol. 17, No. 6 & 7, pp. 577-586, 1988
	AL	Bendayan, "Possibilities of False Immunocytochemical Results Generated by the Use of Monoclonal Antibodies: The Example of the Anti-proinsulin Antibody", <u>The Journal of Histochemistry and Cytochemistry</u> , Vol. 43, No. 9, pp. 881-886, 1995
	AM	Colman, "Effects of amino acid sequence changes on antibody-antigen interactions" <u>Research in Immunology</u> , Vol. 145, No. 1, pp. 33-36
	AN	Lederman, et al., "A single Amino Acid Substitution in a Common African Allele of the CD4 Molecule Ablates Binding of the Monoclonal Antibody, OKT4", <u>Molecular Immunology</u> , Vol. 28, No. 11, pp. 1171-1181, 1991
	AO	Abaza, et al., "Effects of Amino Acid Substitutions Outside an Antigenic Site on Protein Binding to Monoclonal Antibodies of predetermined Specificity Obtained by Peptide Immunization: Demonstration with Region 94-100 (Antigenic Site 3) of Myoglobin", <u>Journal of Protein Chemistry</u> , Vol. 11, No. 5, pp. 433-444
	AP	Ngo, et al., "Computational Complexity, Protein Structure Prediction and the Levinthal Paradox", <u>The Protein Folding Problem</u> , Ch. 14, pp. 491-494

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	